

FSJ1-75

Cable Ordering Information

Description	Type No.
Standard Cable	
1/4" Standard superflexible	FSJ1-75
Fire Retardant Cables	
1/4" Fire Retardant Jacket (CATVX)	FSJ1RN-75
1/4" Fire Retardant Jacket (CATVR)	FSJ1RN-75

Characteristics

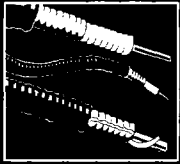
Electrical	
Impedance, ohms	75 ± 4
Maximum Frequency, GHz	22.0
Velocity, percent	78
Peak Power Rating, kW	6.7
dc Resistance, ohms/1000 ft (1000 m)	
Inner	15 (49.2)
Outer	1.8 (5.9)
dc Breakdown, volts	2000
Jacket Spark, volts RMS	5000
Capacitance, pF/ft (m)	17.4 (57.0)
Inductance, µH/ft (m)	0.098 (0.321)
Mechanical	
Outer Conductor	Copper
Inner Conductor	Copper-Clad Steel
Diameter over Jacket, in (mm)	0.29 (7.4)
Diameter over Copper Outer Conductor, in (mm)	0.25 (6.4)
Minimum Bending Radius, in (mm)	1 (25)
Number of Bends, minimum (typical)	15 (50)
Bending Moment, lb-ft (N•m)	0.5 (0.68)
Cable Weight, lb/ft. (kg/m)	0.046 (0.068)
Tensile Strength, lb (kg)	150 (68)
Flat Plate Crush Strength, lb/in (kg/mm)	100 (1.8)

Attenuation and Average Power

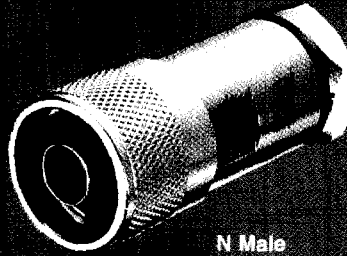
Frequency MHz	Attenuation dB/100 ft	Attenuation dB/100m	Average Power kW
0.5	0.129	0.425	6.70
1	0.182	0.597	5.86
1.5	0.222	0.729	4.81
2	0.256	0.840	4.16
10	0.574	1.88	1.86
20	0.815	2.67	1.30
30	1.00	3.28	1.06
50	1.30	4.27	0.806
88	1.75	5.74	0.601
100	1.87	6.14	0.564
108	1.95	6.39	0.543
150	2.31	7.58	0.462
174	2.49	8.18	0.429
200	2.68	8.79	0.399
300	3.34	11.0	0.320
400	3.91	12.8	0.274
450	4.17	13.7	0.256
500	4.41	14.5	0.242
512	4.47	14.7	0.238
600	4.87	16.0	0.219
700	5.30	17.4	0.200
800	5.72	18.8	0.185
824	5.82	19.1	0.183
894	6.10	20.0	0.174
960	6.35	20.8	0.167
1000	6.50	21.3	0.163
1250	7.40	24.3	0.144
1500	8.23	27.0	0.130
1700	8.84	29.0	0.121
2000	9.70	31.8	0.109
2300	10.6	34.7	0.100
3000	12.4	40.8	0.0852
4000	14.9	48.7	0.0714
5000	17.0	55.8	0.0623
6000	19.2	62.9	0.0553
8000	23.2	76.1	0.0458
10000	26.9	88.3	0.0396

Standard Conditions:

For Attenuation. VSWR 1.0, ambient temperature 24°C (75°F).
For average power, VSWR 1.0 ambient temperature 40°C (104°F), inner conductor temperature 100°C (212°F), no solar loading.



HELIAX®
Coaxial



N Male
F1NM-7550

Connectors

Interface	Description	Type Number	Previous Type Number	Inner Contact Attachment	Outer Contact Attachment	Plating Code	Dimensions, in (mm)	
							Maximum Length	Maximum Diameter
N Male	50 Ohm Mating Pin	F1NM-7550	41SW-75	Solder	Tab Flare	NS	1.5 (38)	0.83 (21.1)
N Male	50 Ohm Mating Pin	F1NM-7550-H	—	Solder	Collet	SG	1.85 (47)	0.92 (23.4)
N Male	70 Ohm Mating Pin	F1NM-7570	41SW-70	Solder	Tab Flare	NS	2.2 (56)	0.79 (20.1)
N Female	70 Ohm Mating Pin	F1NF-7570	41SN-70	Solder	Tab Flare	BS	1.9 (48)	0.70 (17.8)
BNC Male	50 Ohm Mating Pin	49651	—	Solder	Tab Flare	BS	1.2 (30)	0.56 (14.2)
UHF Male	50 Ohm Mating Pin	41SP	—	Solder	Tab Flare	BB	1.5 (38)	0.72 (18.3)
TNC Male	50 Ohm Mating Pin	41SWT-75	—	Solder	Tab Flare	SS	1.1 (28)	0.63 (16.0)
CATV Type F		F1FM-75	41ASCM	Spring Finger	Crimp	BB	1.42 (36)	0.56 (14.2)

Plating Codes: BB - Brass Body and Pin, BS - Brass Body and Silver Plated Pin, NS - Nickel Plated Body and Silver Plated Pin, SS - Silver Plated Body and Pin, SG - Silver Plated Body and Gold Plated Pin

Accessories –

Photos and descriptions on pages 544-572.

Description	Type No.	Description	Type No.
Insulated Hangers and Adapters		Grounding and Surge Protection -	
Insulated Hanger , single, for insulated towers. Standard tower configuration spacing is 3-4 feet (1-1.2 m). Recommended maximum spacing for outdoor installation is 1.5 ft (0.46 m) at 125 mph (200 km/h) wind, 1/2" (13 mm) radial ice. For different wind and ice loading spacing recommendations, refer to Cable Hanger Spacing, page 547.	11662-3	for more information, see pages 559-564.	
Angle Adapter , for insulated hanger	40430-1	Grounding Kit factory attached, one-hole lug, 24 in (610 mm) lead	223158
Stainless Steel Wraplock , for round tower members	12395-1	Weatherproofing - for more information, see page 565.	
Nylon Cable Tie Kit of 50. Recommended maximum spacing for outdoor installations is 1 ft (0.3 m)	40417	Connector/Splice Weatherproofing Kit	221213
Nylon Cable Tie Kit in Plastic Box. 100 each, 4, 5.5, and 7.5 inch (101, 140, and 190 mm) ties. Recommended maximum spacing for outdoor installations is 1 ft (0.3 m)	CT-K350	Tools - for more tools see page 569.	
Velcro Cable Ties . Black, 8 inch. For indoor use only		Installer Pax™ . Bulk packs are available for some hangers, adapters, grounding kits and cold shrink weatherproofing kits. See page 570.	
Kit of 10	VCT8-10		
Kit of 50	VCT8-50		